Application No.: 10/581,140 Filing Date: May 30, 2007

Applicants: Joseph D. Buxbaum and Nicolas Ramoz

Amendments to the Claims

A listing of the claims, including Claims 1-3 as currently amended and new Claims 24-26, is set forth below.

- 1. (Currently Amended) A method of evaluating whether a human may be at risk for autism, the method comprising determining the human's genotype at polymorphism sites rs2056202 and/or rs2292813 of the SLC25A12 gene, wherein the presence of a G at either or both of the two sites indicates the human may be at risk for autism.
- 2. (Currently Amended) The method of claim 1, wherein the genotype are is determined by one or more methods selected from the group consisting of single strand conformation polymorphism, denaturing high performance liquid chromatography, DNA Invader, and polymerase chain reaction amplification followed by sequencing.
- 3. (Currently Amended) The method of claim 1, wherein the genotype is determined by using polymerase chain reaction amplification with at least one primer comprising a sequence selected from the group consisting of SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, and SEQ ID NO:8.

4-23. (Canceled).

- 24. (New) The method of claim 1, wherein the human has a G*G haplotype at the polymorphism sites.
- 25. (New) The method of claim 1, wherein the human does not have a rs1059299 polymorphism.

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26. (New) A method of determining a human's genotype at polymorphism sites rs2056202 and/or rs2292813 of the SLC25A12 gene, comprising obtaining a sample from the human and determining if a G is present at polymorphism sites rs2056202 and/or rs2292813 of the SLC25A12 gene in the sample.